

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/051550

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/4178 A61K31/4184 A61K31/41 C07D403/10 C07D257/04
C07D403/04 C07D409/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | WO 00/61537 A (NICOX SA (FR)) 19 October 2000 (2000-10-19) page 2, paragraph 2 page 3, paragraph 3 page 6, paragraph 2: losartan page 7, formula (I) page 38, paragraph 1 example 12 | 1-14 |
| Y | WO 03/013499 A (NICOX SA (FR)) 20 February 2003 (2003-02-20) page 1, paragraph 1 - paragraph 2 formula (I) compounds (V)-(IX) -/- | 1-14 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

17 January 2005

Date of mailing of the international search report

22. 02. 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Cortés, J

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/051550

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|---|-----------------------|
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y | MCINTYRE ET AL.: "Losartan, an Orally Active Angiotensin (AT1) Receptor Antagonist: A Review of Its Efficacy and Safety in Essential Hypertension" PHARMACOL. THER., vol. 74, no. 2, 1997, pages 181-194, XP002262197 the whole document | 1-14 |
| A | EP 0 955 294 A (SMITHKLINE BEECHAM CORP (UK)) 10 November 1999 (1999-11-10) page 1, paragraph 1 examples 44,56,57,69,88 claims | 1-14 |
| A | HEDNER T ET AL: "A COMPARISON OF THE ANGIOTENSIN II ANTAGONISTS VALSARTAN AND LOSARTAN IN THE TREATMENT OF ESSENTIAL HYPERTENSION" AMERICAN JOURNAL OF HYPERTENSION, NEW YORK, NY, US, vol. 12, no. 4, April 1999 (1999-04), pages 414-417, XP000866169 the whole document | 1-14 |
| A | EP 1 312 379 A (TAKEDA CHEMICAL INDUSTRIES LTD (JP)) 21 May 2003 (2003-05-21) the whole document | 1-14 |
| A | "TELMISARTAN" DRUGS OF THE FUTURE, BARCELONA, ES, vol. 22, no. 10, 1997, pages 1112-1116, XP009008343 ISSN: 0377-8282 the whole document | 1-14 |
| A | "OLMESARTAN MEDOXOMIL CS-866 BENEVAS ANTIHYPERTENSIVE ANGIOTENSIN AT ANTAGONIST" DRUGS OF THE FUTURE, BARCELONA, ES, vol. 25, no. 11, November 2000 (2000-11), pages 1217-1218, XP009030725 ISSN: 0377-8282 the whole document | 1-14 |
| A | HEDNER T: "THE CLINICAL PROFILE OF THE ANGIOTENSIN II RECEPTOR BLOCKER EPROSARTAN" JOURNAL OF HYPERTENSION, CURRENT SCIENCE, PHILADELPHIA, PA, US, vol. 20, no. SUPPL 5, 2002, pages S33-S38, XP008011504 ISSN: 0263-6352 the whole document | 1-8 |

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/051550

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

As a result of the prior review under R. 40.2(e) PCT,
all additional fees are to be refunded.

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☒ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14 (partly)

compounds wherein R is (II) and R1 is (IIa) (losartan related compounds)

2. claims: 1-14 (partly)

compounds wherein R is (II) and R1 is (IIb) (valsartan related compounds)

3. claims: 1-14 (partly)

compounds wherein R is (II) and R1 is (IIc) (candesartan related compounds)

4. claims: 1-14 (partly)

compounds wherein R is (II) and R1 is (IId) (telmisartan related compounds)

5. claims: 1-14 (partly)

compounds wherein R is (II) and R1 is (IIe) (olmesartan related compounds)

6. claims: 1-14 (partly)

compounds wherein R is (III) (eprosartan related compounds)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/051550

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| WO 0061537 | A | 19-10-2000 | IT MI990753 A1 | 13-10-2000 |
| | | | AU 4400100 A | 14-11-2000 |
| | | | BR 0009702 A | 08-01-2002 |
| | | | CA 2370412 A1 | 19-10-2000 |
| | | | CN 1354740 T | 19-06-2002 |
| | | | WO 0061537 A2 | 19-10-2000 |
| | | | EP 1169294 A2 | 09-01-2002 |
| | | | HU 0203378 A2 | 28-01-2003 |
| | | | JP 2002541233 T | 03-12-2002 |
| | | | MX PA01010210 A | 18-09-2002 |
| | | | NO 20014927 A | 13-12-2001 |
| | | | NZ 514267 A | 25-06-2004 |
| | | | PL 350777 A1 | 10-02-2003 |
| | | | RU 2237657 C2 | 10-10-2004 |
| | | | ZA 200108127 A | 03-01-2003 |
| WO 03013499 | A | 20-02-2003 | IT MI20011744 A1 | 10-02-2003 |
| | | | WO 03013499 A2 | 20-02-2003 |
| EP 0955294 | A | 10-11-1999 | EP 0955294 A2 | 10-11-1999 |
| | | | AT 190051 T | 15-03-2000 |
| | | | AT 250587 T | 15-10-2003 |
| | | | AU 633322 B2 | 28-01-1993 |
| | | | AU 5690190 A | 10-01-1991 |
| | | | CA 2018438 A1 | 14-12-1990 |
| | | | CN 1048038 A ,B | 26-12-1990 |
| | | | CN 1079649 A ,B | 22-12-1993 |
| | | | CY 2232 A | 18-04-2003 |
| | | | DE 10075018 I1 | 21-09-2000 |
| | | | DE 69033469 D1 | 06-04-2000 |
| | | | DE 69033469 T2 | 07-09-2000 |
| | | | DE 69034103 D1 | 30-10-2003 |
| | | | DE 69034103 T2 | 15-07-2004 |
| | | | DK 403159 T3 | 14-08-2000 |
| | | | DK 955294 T3 | 02-02-2004 |
| | | | EP 0403159 A2 | 19-12-1990 |
| | | | ES 2142789 T3 | 01-05-2000 |
| | | | ES 2207091 T3 | 16-05-2004 |
| | | | FI 102610 B1 | 15-01-1999 |
| | | | GR 3033452 T3 | 29-09-2000 |
| | | | HK 1025315 A1 | 23-07-2004 |
| | | | HK 1012384 A1 | 24-11-2000 |
| | | | HU 55011 A2 | 29-04-1991 |
| | | | IE 20000297 A1 | 13-12-2000 |
| | | | IE 902140 A1 | 02-01-1991 |
| | | | IL 94698 A | 31-07-1994 |
| | | | JP 2036046 C | 28-03-1996 |
| | | | JP 3115278 A | 16-05-1991 |
| | | | JP 7068223 B | 26-07-1995 |
| | | | KR 165837 B1 | 18-02-1999 |
| | | | LU 90562 A9 | 05-06-2000 |
| | | | MA 21896 A1 | 01-04-1991 |
| | | | MX 21109 A | 31-01-1994 |
| | | | NL 300006 I1 | 03-07-2000 |
| | | | NO 902632 A ,B, | 17-12-1990 |
| | | | NZ 233997 A | 26-04-1991 |
| | | | PH 27592 A | 31-08-1993 |
| | | | PL 285591 A1 | 25-03-1991 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/051550

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|---------------------|
| EP 0955294 | A | PL 166669 B1 | 30-06-1995 |
| | | PL 166722 B1 | 30-06-1995 |
| | | PT 94377 A ,B | 20-03-1991 |
| | | SG 52330 A1 | 28-09-1998 |
| | | US 5418250 A | 23-05-1995 |
| | | US 5185351 A | 09-02-1993 |
| | | ZA 9004579 A | 26-06-1991 |
| | | ZW 9490 A1 | 31-10-1990 |
| EP 1312379 | A | 21-05-2003 | |
| | | AU 8013501 A | 04-03-2002 |
| | | CA 2420055 A1 | 31-01-2003 |
| | | EP 1312379 A1 | 21-05-2003 |
| | | WO 0215935 A1 | 28-02-2002 |
| | | JP 2002138054 A | 14-05-2002 |
| | | US 2003187038 A1 | 02-10-2003 |